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(54) **CHONDROITINASE ABC, ITS PRODUCTION  
 AND MEDICINE COMPOSITION**

## (57) Abstract:

**PURPOSE:** To obtain a new enzyme useful as a therapeutic agent for herniated disk free from side effect because of absence of impurities, high purity, high specific activity and excellent stability, also useful as a reagent for research having high reproducibility.

**CONSTITUTION:** Purified chondroitinase ABC not containing endotoxin, having contents of nucleic acid and protease of a detection limit. Molecular weight:

100,000 Dalton. Isoelectric point: pH 8.2-pH 8.5. Optimum pH and optimum temperature: optimum pH 8-8.2 and optimum temperature 37°C in the case of chondroitin sulfate as a substrate in a tris-hydrochloric buffer solution. Influence by a metal; inhibition of activity with  $Zn^{2+}$ ,  $Ni^{2+}$ , etc. End amino acids: Ala of N end and Pro of C end. Specific activity,  $\geq 300V/mg$ , etc. The enzyme is obtained by removing nucleic acid from an extracted solution of the enzyme yielded from a cell producing the enzyme and successively chromatographing the extracted solution with a weak cation exchange resin and a strong cation exchange resin.

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Title: **JP06153947A2: CHONDROITINASE ABC, ITS PRODUCTION AND MI COMPOSITION**

Derwent Title: Crystallisable, purified chondroitinase ABC - used in compsn. together with serum albumin and gelatin to treat intervertebral disc displacement [Derwent Record]

Country: **JP Japan**

Kind: **A**

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